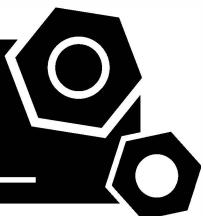


**Generator set  
Sound-proof type  
WPS352D6S-EPA**

**SPECIFICATIONS**



## 1 Standards & Conditions

### Design Standards

The designs and the productions are in conformity with:

- ISO8528-5:2005
- GB/T2820.5-2009
- YD/502-2007
- JB/T20136-2006

Electrical devices have obtained the certification of:

- CSA
- UL

### Environmental Operating Conditions

- Installation place: Outdoors or indoors (well ventilated).
- Ambient temperature: -25°C to 50°C. The coolant heater is needed when the temperature is below 5°C
- Humidity: Less than 80%.
- Altitude: Below one thousand (1000) meters.

### Factory Inspection

- Inspection items.
- Protection devices working test.
- Starting ability in normal temperature.
- 50% rated power load moment capability.
- Voltage deviation and speed variation: 0%, 25%, 50%, 75%, 100%, 110% Load.

### Painting Process

- Painting process specifications and colors are based on the manufacturer's standard.
- The customer could also choose the color which the manufacturer offers.

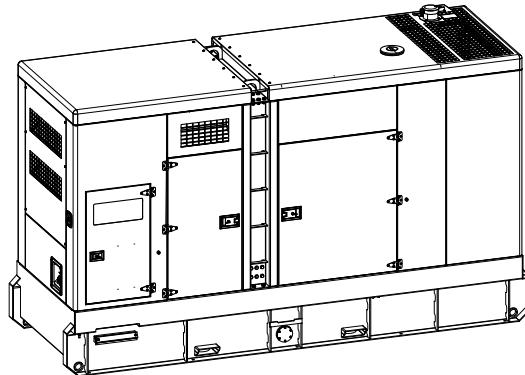
## 2 General Features

- Perkins engine 2206D-E13TAG2L
- Close coupled to Stamford alternator S4L1D-D4
- Microprocessor control module PLC-7420
- ABB main circuit breaker: 500A
- Rotate speed governor: ECU
- Excitation system: Self excited, SHUNT
- A.V.R model: AS440
- Key switch
- Emergency stop switch

- ATS (automatic transfer switch) receptacle
- 2x12V/120AH sealed for life maintenance free battery
- Lockable battery isolator switch
- Powder coated canopy
- 50°C radiator
- Oil pump on the engine
- Steel base frame with forklift slots
- Vibration isolators between the engine/alternator and base frame
- Dry type air filter
- Base fuel tank for 9 hours running
- Drain points for fuel tank
- Operation Manual/ Specifications

## 3 Equipment Specification

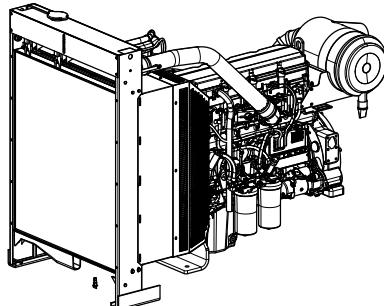
### General technical data



Model.....	WPS352D6S-EPA
Structure type .....	R
Tank capacity.....	800L
Dry weight.....	4511kg
Sound pressure level @7m .....	77.4dBA
Dimensions L×W×H.....	4250x1430x2505mm
Standby Power .....	440kVA/352kW
Prime Power .....	396kVA/317kW

Voltage	416V	440V	460V	480V	
Ampere	549A	519A	497A	476A	
<b>Genset Fuel Consumption</b>					
Frequency/Load	25%	50%	75%	100%	110%
60Hz (L/h)	N/A	42	65	83	92.4

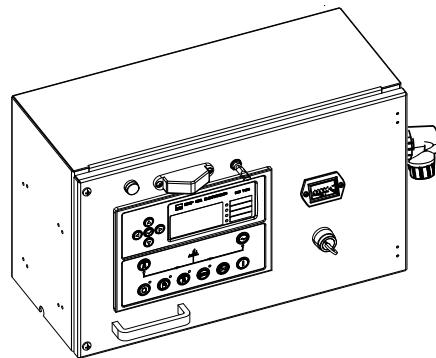
## Power System



Engine Manufacturer/Brand.....	Perkins
Engine Model.....	2206D-E13TAG2L
Dimensions L×W×H.....	2410×1120×1725mm
Dry Weigh (approx.) .....	1478Kg
Number of Cylinders.....	6
Bore .....	130mm
Stroke .....	157mm
Displacement.....	12.5L
Compression Ratio.....	16.3
Type of injection.....	Direct injection
Intake System.....	Turbocharged,air-to-air charge cooled
Intake Resistance.....	6.4kPa
Cooling System .....	Water cooled
Fan .....	Pusher
Battery Voltage .....	24V
Type of Fuel....	BSEN590 or ASTM D975 Class 1D and 2D
Type of Oil .....	15W40 to API CI4.
Oil Capacity .....	40L
Type of Coolant .....	Glycol mixture
Coolant Capacity .....	51.4L
Back Pressure .....	N/A
Standby Power .....	407kW
Prime Power .....	373kW
Fuel Consumption(100%load).....	83L/h

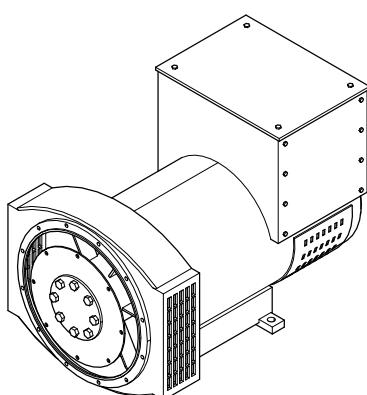
Alternator Manufacturer/Brand .....	Stamford
Alternator Model .....	S4L1D-D4
Exciter.....	Brushless
Cooling Fan .....	Cast alloy aluminum
Windings .....	100% copper
Insulation Class .....	H
Winding Pitch.....	2/3
Terminals .....	12
Drip Proof .....	IP23
Altitude.....	≤1000m
Overspeed .....	2250 rpm
Air Flow.....	0.8m³/s(50HZ),0.99m³/s(60HZ)
Voltage Regulation .....	± 1.0 %
Total harmonic TGH / THCat no load < 1.5 % - on load < 5%	
Telephone Interference.....	THF<2%;TIF<50

## PLC-7420 Control System

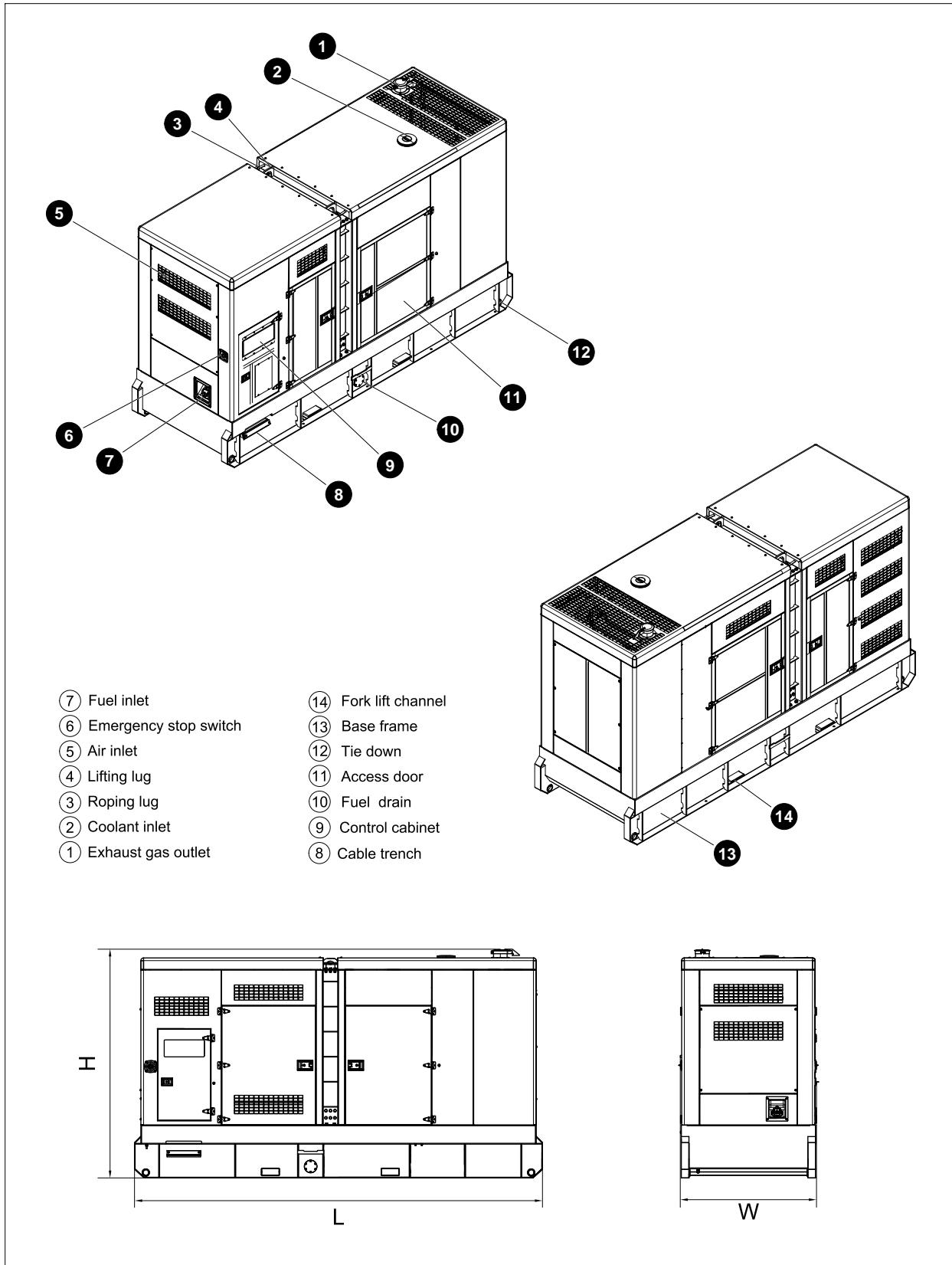


PLC-7420 is an advanced control module based on microprocessor, containing all necessary functions for protection of the genset and the breaker control. It can monitor the mains supply, and automatically start the engine when the mains is abnormal. Accurately measure various operational parameters and display all values and alarms information on the LCD. In addition, the control module can automatically shut down the engine and indicate the engine failure.

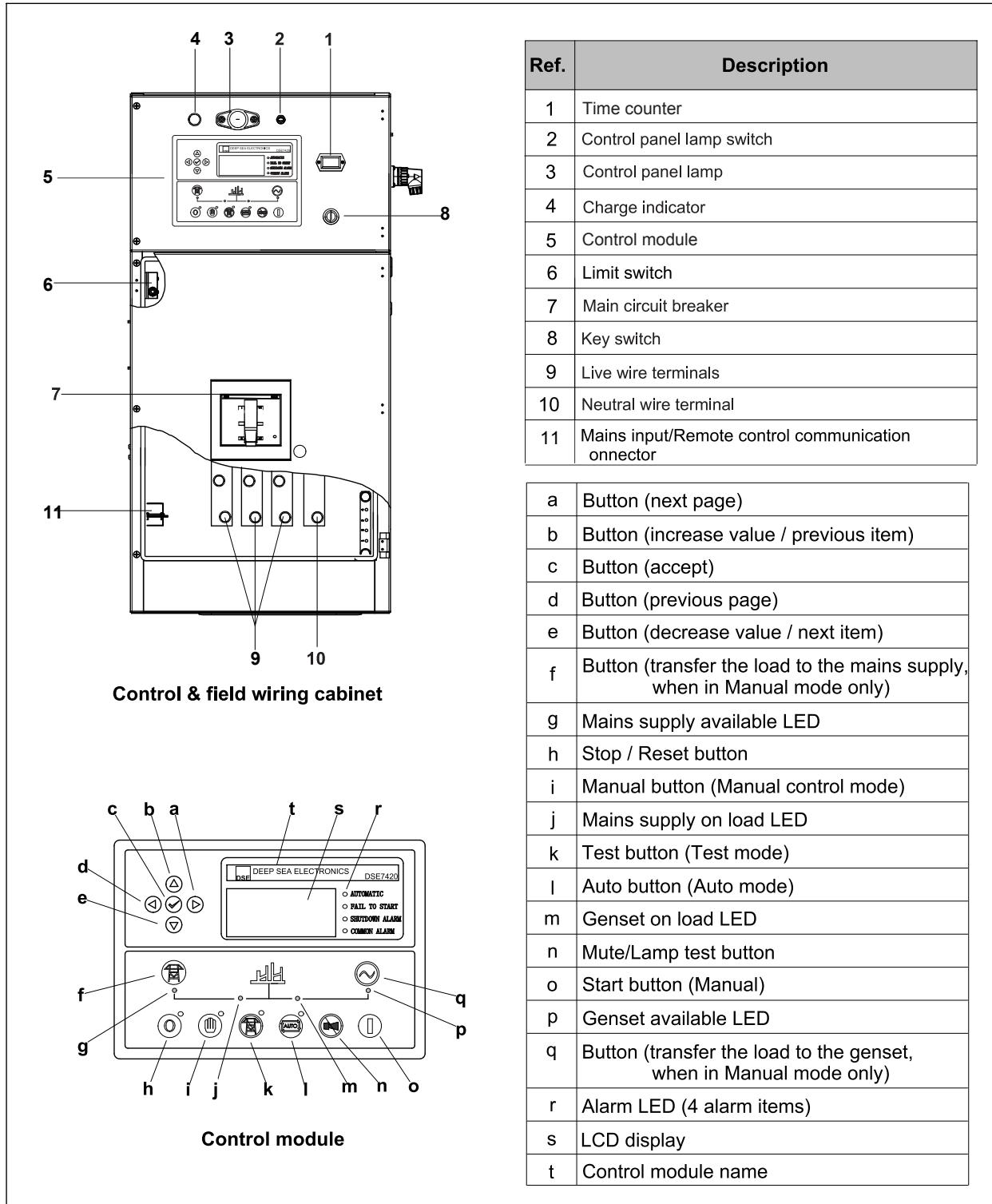
- Microprocessor control, with high stability and credibility
- Monitoring and measuring operational parameters of the mains supply and genset
- Indicating operation status, fault conditions, all parameters and alarms
- Multiple protections; multiple parameters display, like pressure, temp. etc.
- Manual, automatic and remote work mode selectable
- Real time clock for time and date display, overall runtime display, 250 log entries
- Overall power output display
- Integral speed/frequency detecting, telling status of start, rated operation, overspeed etc.
- Communication with PC via RS485 OR RS232 interface, using MODBUS protocol



## 4 Overall Dimensions



## 5 Control System



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11.2023

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*Specification may change without prior notice. For more info.,  
contact Power Link or your local distributors please.*

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